



**MIAMI-DADE COUNTY**  
**BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)**  
**BOARD AND CODE ADMINISTRATION DIVISION**

**MIAMI-DADE COUNTY**  
**PRODUCT CONTROL SECTION**  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

## **NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/building/](http://www.miamidade.gov/building/)

**Lawson Industries, Inc.**  
**8501 NW 90 Street**  
**Medley, FL 33166**

### **SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County BNC - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BNC reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series "HS-8700 Flange" Aluminum Horizontal Sliding Window - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **L8700-0901**, titled "HS-8700 Horizontal Rolling Flange Impact Window", sheets 1 through 10 of 10, dated 05/30/09, prepared by Lawson Industries, Inc., signed and sealed by Thomas J. Sotos, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LIMITATIONS:** Windows with glass types A, C or G installed above 30 Ft in the HVHZ, the I. G. exterior lite shall be tempered.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and replaces** NOA # **09-0706.05** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No. 11-0705.10**  
**Expiration Date: April 11, 2012**  
**Approval Date: September 08, 2011**  
**Page 1**

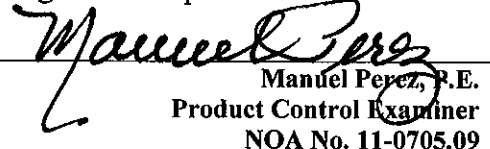
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **L8700-0901**, titled "HS-8700 Horizontal Rolling Flange Impact Window", sheets 1 through 10 of 10, dated 05/30/09, prepared by Lawson Industries, Inc., signed and sealed by Thomas J. Sotos, P. E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of 8 specimens of an aluminum horizontal sliding window, XOX (1/4, 1/2, 1/4 and 1/3, 1/3, 1/3) configuration, prepared by Hurricane Engineering & Testing, Inc., Test Reports No.'s: **HETI-10-3047, HETI-10-3048, HETI-10-3049, HETI-10-3049I, HETI-10-3050, HETI-10-3051, HETI-10-3052B, HETI-10-3053, HETI-10-3056, HETI-10-3057, HETI-10-3130, HETI-10 3131, HETI-10-3223, HETI-10-3224, HETI-10-3225, HETI-10-3226 and HETI-10-3251**, dated 11/09/10, 03/23/11 and 04/25/11, signed and sealed by Candido F. Font, P.E. and Rafael E. Droz-Seda, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of 8 specimens of an aluminum horizontal sliding window, XO configuration, prepared by Hurricane Engineering & Testing, Inc., Test Reports No.'s **HETI-08-2033, HETI-08-2034, HETI-08-2035, HETI-08-2036, HETI-08-2037, HETI-08-2038, HETI-08-2116A and HETI-08-2116B**, dated February 28, 2008, all signed and sealed by Candido F. Font, P. E. (*Submitted under previous NOA No. 09-0706.05*)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of 8 specimens of an

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 11-0705.09

Expiration Date: December 27, 2016  
Approval Date: September 08, 2011

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**B. TESTS (CONTINUED)**

3. aluminum horizontal sliding window, XO configuration, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-3097, FTL-3098 and FTL-3364**, dated December 6, 2001, December 11, 2001 and January 28, 2002, all signed and sealed by Luis Antonio Figueredo, P. E. (*Submitted under NOA No. 02-02.05*)

**C. CALCULATIONS:**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Lawson Industries, Inc., dated 05/28/09, revised on 07//10, signed and sealed by Thomas J. Sotos, P. E.
2. Glazing complies with ASTM E1300-04.

**D. QUALITY ASSURANCE**

1. Miami-Dade Building and Neighborhood Compliance Department (BNC).

**E. MATERIAL CERTIFICATIONS**

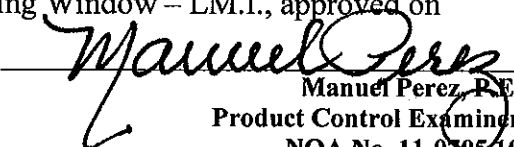
1. Notice of Acceptance No. **10-0922.09** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB, Interlayer**" dated 12/24/10, expiring on 12/11/11.
2. Notice of Acceptance No. **09-0223.05** issued to **Solutia, Inc.** for their "**Saflex Multi-layer Glass Interlayer**" dated 04/08/09, expiring on 04/08/14.
3. Notice of Acceptance No. **08-0206.01** issued to **Solutia, Inc.** for their "**Saflex HP Glass Interlayer**" dated 04/17/08, expiring on 04/14/13.

**F. STATEMENTS**

1. Statement letter of conformance, dated July 05, 2011, signed and sealed by Thomas J. Sotos, P. E.
2. Statement letter of no financial interest, dated July 05, 2011, signed and sealed by Thomas J. Sotos, P. E.
3. Testing Proposal issued by BNC, dated 11/25/08, signed by Jaime Gascon, P. E.
4. Laboratory compliance letter for Test Reports No.'s **HETI-08-2033, HETI-08-2034, HETI-08-2035, HETI-08-2036, HETI-08-2037, HETI-08-2038, HETI-08-2116A and HETI-08-2116B**, issued by Hurricane Engineering & Testing, Inc., dated February 28, 2008, all signed and sealed by Candido F. Font, P. E. (*Submitted under previous NOA No. 09-0706.05*)
5. Laboratory compliance letter for Test Reports No.'s **FTL-3097, FTL-3098 and FTL-3364**, issued by Fenestration Testing Laboratory, Inc., dated December 6, 2001, December 11, 2001 and January 28, 2002, all signed and sealed by Luis Antonio Figueredo, P. E. (*Submitted under previous NOA No. 02-0227.05*)

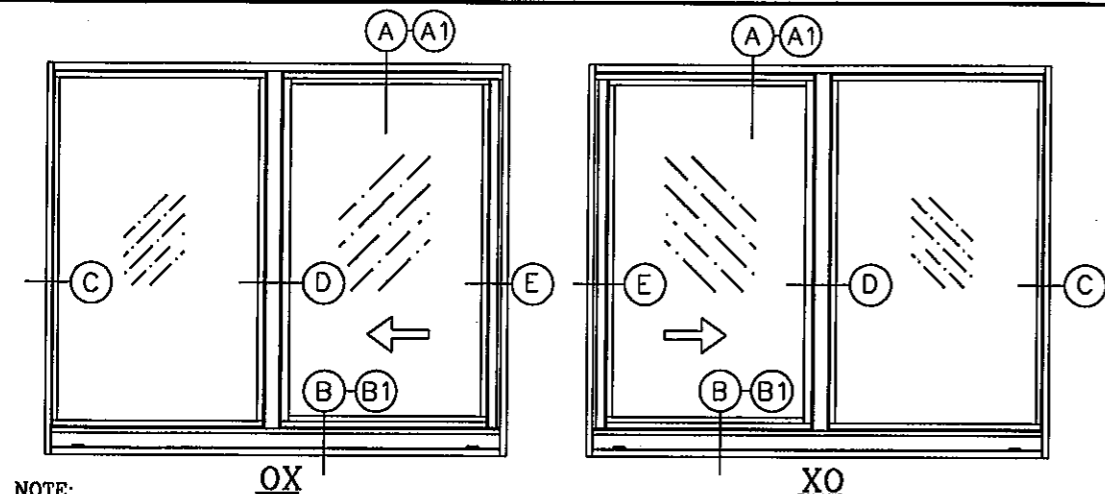
**G. OTHERS**

1. Notice of Acceptance No. **09-0706.05**, issued to Lawson Industries, Inc. for their Series "**HS-8700**" Aluminum Horizontal Sliding Window -- L.M.I., approved on 02/10/10 and expiring on 04/11/12.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 11-0705.10  
Expiration Date: April 11, 2012  
Approval Date: September 08, 2011

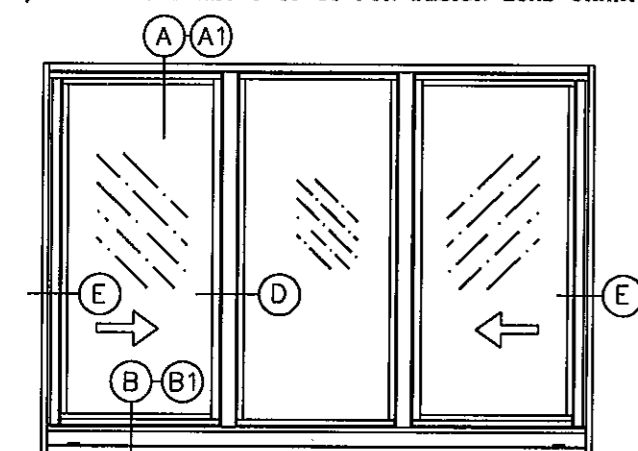
## General Notes:

- 1.) THIS WINDOW SYSTEM IS DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2007 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ) AND ASTM 1300-02. THIS PRODUCT IS IMPACT RESISTANT. (SHUTTERS NOT REQUIRED)
- 2.) WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH THE REQUIREMENTS OF 2007 F.B.C. & TO BE REVIEWED BY BUILDING OFFICIAL.
- 3.) ANCHORS SHOWN ON SHEET 2 OF 10 ARE AS PER TEST UNITS. ANCHORS ON ALL WINDOW SIZES ARE NOT TO EXCEED THESE MAXIMUM SPACINGS ON CENTER (O.C.), AND AS TABULATED ON SHEETS 6, 7, or 8.
- 4.) ANCHOR CONDITIONS NOT DESCRIBED IN THESE DRAWING'S ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS, UNDER SEPARATE APPROVAL AND TO BE REVIEWED BY BUILDING OFFICIAL.
- 5.) WINDOWS ARE QUALIFIED FOR USE WITH SINGLE GLAZE LAMINATED GLASS TYPES TABULATED HEREIN (SEE SHEETS #6, 7, or 8), AND FOR USE WITH DOUBLE GLAZE LAMINATED INSULATED GLASS TYPES TABULATED HEREIN (SEE SHEETS #6, 7 or 8).
- 6.) WINDOWS WITH GLASS TYPES "A, C, OR G" INSTALLED ABOVE 30FT. IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED.
- 7.) SEE SHEET 4 FOR LOCK DETAILS & OPTIONS.
- 8.) SEE SHEET 9 FOR GLASS TYPES.
- 9.) SEE SHEET 6 FOR DESIGN PRESSURES ON "XO or OX" WINDOWS.
- 10.) SEE SHEET 7 FOR DESIGN PRESSURES ON EQUAL-LITE "XOX" WINDOWS.
- 11.) SEE SHEET 8 FOR DESIGN PRESSURES ON UN-EQUAL LITE "XOX" WINDOWS.
- 12.) FOR OPTIONAL FRAME INSTALLATION DETAILS SEE SHEETS 3, 4, or 9.
- 13.) EXT. & INT. FALSE COLONIAL MUNTINS ARE OPTIONAL & AND ARE APPLIED W/ SILICONE
- 14.) WOOD BUCKS IN CONTACT WITH CONCRETE MUST BE PRESSURE TREATED AND ANCHORED (BY OTHERS), PRIOR TO WINDOW INSTALLATION. (SEE SHEET #3, 4 & 5 FOR DETAILS & NOTES) WOOD BUCKS TO BE ANCHORED IN COMPLIANCE WITH THE 2007 FBC CHAPTER 24 SECTION 11.3.3.3.
- 15.) APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE MULLED UNITS.
- 16.) SEE SHEET # 5 FOR MULLION/METAL ATTACHMENT DETAILS, NOTES & OPTIONS.
- 17.) MULLING HORIZONTAL SLIDING WINDOWS WITH OTHER TYPES OF MIAMI-DADE COUNTY APPROVED WINDOWS USING A MIAMI-DADE COUNTY APPROVED MULLION IN BETWEEN ARE ACCEPTABLE BUT THE LOWER DESIGN PRESSURE FROM THE WINDOWS OR MULLION APPROVAL WILL APPLY TO THE ENTIRE MULLED SYSTEM.
- 18.) ALL METAL/STEEL IN CONTACT WITH ALUMINUM OR OTHER DISSIMILAR MATERIALS TO BE PAINTED OR PLATED AND SHALL MEET SECTION 2003.8.4 OF THE 2007 FLORIDA BLDG. CODE.



NOTE:

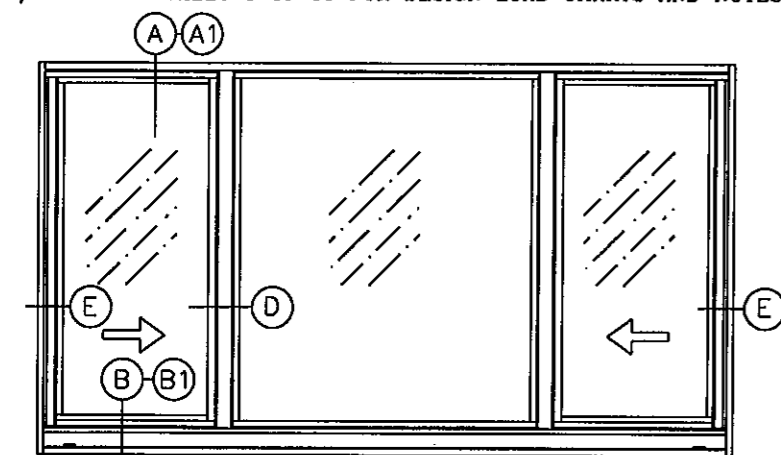
- 1) REFER TO SHEET 2 OF 10 FOR INSTALLATION ANCHOR DETAILS AND NOTES.
- 2) FOR VERTICAL CROSS-SECTION DETAILS "A, A1, B, & B1" REFER TO SHEET #3
- 3) FOR HORIZONTAL CROSS-SECTION DETAILS "C, D, & E" REFER TO SHEET #4
- 4) REFER TO SHEET 6 OF 10 FOR DESIGN LOAD CHARTS AND NOTES.



**XOX - Equal Lite (1/3-1/3-1/3)**

NOTES:

- 1) REFER TO SHEET 2 OF 10 FOR INSTALLATION ANCHOR DETAILS AND NOTES.
- 2) FOR VERTICAL CROSS-SECTION DETAILS "A, A1, B, & B1" REFER TO SHEET #3
- 3) FOR HORIZONTAL CROSS-SECTION DETAILS "D, & E" REFER TO SHEET #5
- 4) REFER TO SHEET 8 OF 10 FOR DESIGN LOAD CHARTS AND NOTES.



**XOX - Un-Equal Lite (1/4-1/2-1/4)**

NOTES:

- 1) REFER TO SHEET 2 OF 10 FOR INSTALLATION ANCHOR DETAILS AND NOTES.
- 2) FOR VERTICAL CROSS-SECTION DETAILS "A, A1, B, & B1" REFER TO SHEET #3
- 3) FOR HORIZONTAL CROSS-SECTION DETAILS "D, & E" REFER TO SHEET #5
- 4) REFER TO SHEET 7 OF 10 FOR DESIGN LOAD CHARTS AND NOTES.

**SERIES-8700 HORIZONTAL SLIDING IMPACT WINDOW**  
**APPROVED ELEVATIONS**

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-0705.10  
Expiration Date April 2012  
By *Manuel*  
Miami Dade Product Control

**LAWSON**  
INDUSTRIES, INC.

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

HS-8700 HORIZONTAL ROLLING FLANGE IMPACT WINDOW  
APPROVED ELEVATIONS, AND GENERAL NOTES

8501 N.W. 90 ST.  
MEDLEY, FLORIDA 33166  
PH No. (305) 696-8660

Revision #:

Sheet: 1 OF 10

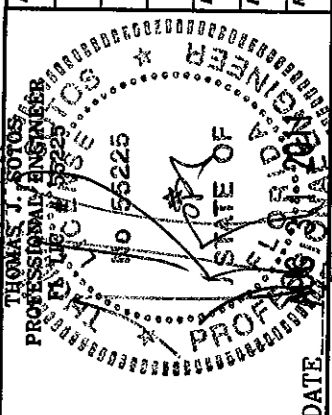
Drawing Number: 18700-0901

Product Reference Number:

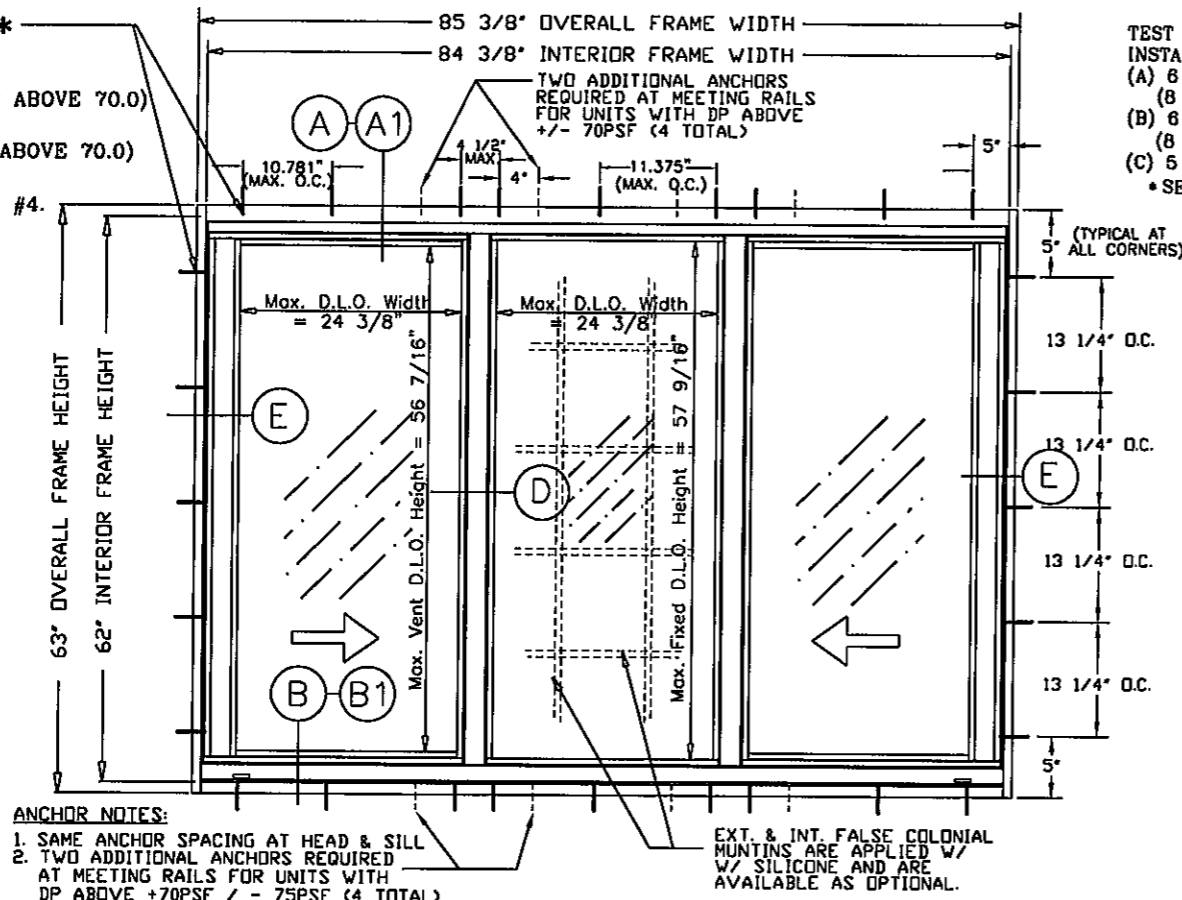
Scale:

Revision Level:

DATE:



TEST UNIT SIZE: 111" X 63" \*  
 INSTALLATION FASTENERS \*  
 (A) 10 AT FRAME HEAD  
 (14 AT FRAME HEAD IF DP ABOVE 70.0)  
 (B) 10 AT EA. FRAME SILL  
 (14 AT FRAME SILL IF DP ABOVE 70.0)  
 (C) 5 AT EA. FRAME JAMB  
 \* SEE GENERAL NOTE #3 & #4.



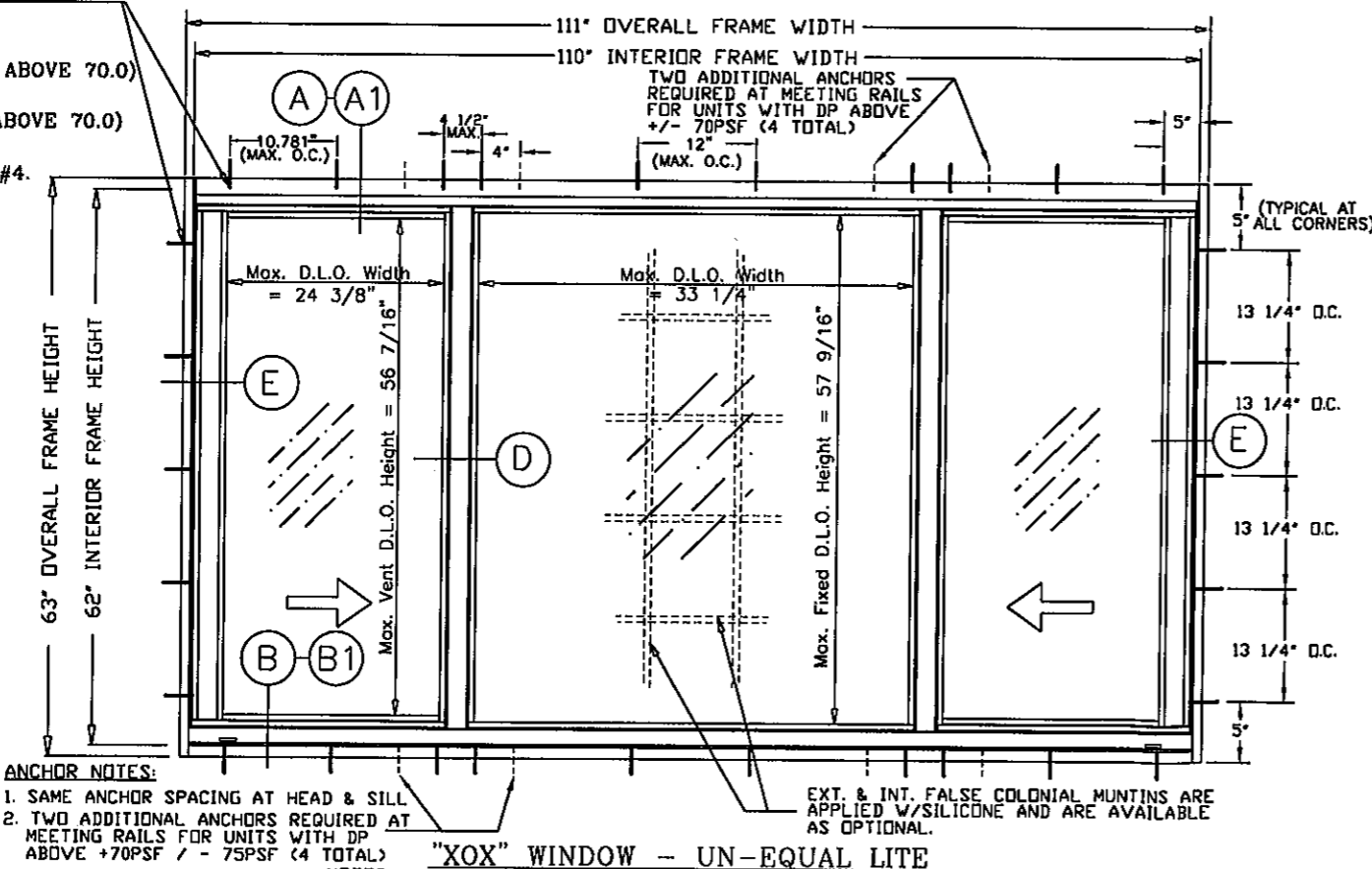
**ANCHOR NOTES:**

1. SAME ANCHOR SPACING AT HEAD & SILL
2. TWO ADDITIONAL ANCHORS REQUIRED AT MEETING RAILS FOR UNITS WITH DP ABOVE +70PSF / - 75PSF (4 TOTAL)

EXT. & INT. FALSE COLONIAL MUNTINS ARE APPLIED W/ W/ SILICONE AND ARE AVAILABLE AS OPTIONAL.

**"XOX" WINDOW EQUAL LITE**  
 NOTES:  
 1. SEE VERTICAL CROSS-SECTION DETAILS "A, A1, B, & B1" AT SHEET #3  
 2. SEE HORIZONTAL CROSS-SECTION DETAILS "C, D, & E" AT SHEET #5

TEST UNIT SIZE: 111" X 63" \*  
 INSTALLATION FASTENERS \*  
 (A) 10 AT FRAME HEAD  
 (14 AT FRAME HEAD IF DP ABOVE 70.0)  
 (B) 10 AT EA. FRAME SILL  
 (14 AT FRAME SILL IF DP ABOVE 70.0)  
 (C) 5 AT EA. FRAME JAMB  
 \* SEE GENERAL NOTE #3 & #4.



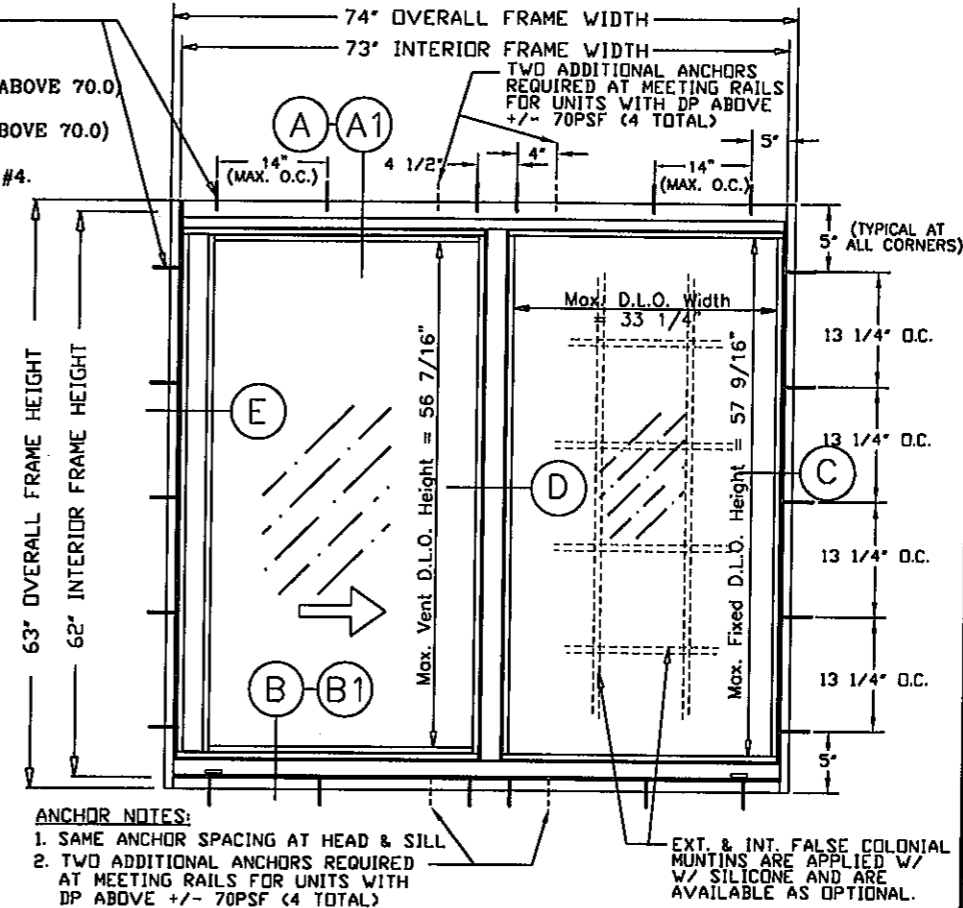
**ANCHOR NOTES:**

1. SAME ANCHOR SPACING AT HEAD & SILL
2. TWO ADDITIONAL ANCHORS REQUIRED AT MEETING RAILS FOR UNITS WITH DP ABOVE +70PSF / - 75PSF (4 TOTAL)

EXT. & INT. FALSE COLONIAL MUNTINS ARE APPLIED W/ SILICONE AND ARE AVAILABLE AS OPTIONAL.

**"XOX" WINDOW - UN-EQUAL LITE**  
 NOTES:  
 1. SEE VERTICAL CROSS-SECTION DETAILS "A, A1, B, & B1" AT SHEET #3  
 2. SEE HORIZONTAL CROSS-SECTION DETAILS "C, D, & E" AT SHEET #5

TEST UNIT SIZE: 74" X 63" \*  
 INSTALLATION FASTENERS \*  
 (A) 8 AT FRAME HEAD  
 (8 AT FRAME HEAD IF DP ABOVE 70.0)  
 (B) 6 AT EA. FRAME SILL  
 (8 AT FRAME SILL IF DP ABOVE 70.0)  
 (C) 5 AT EA. FRAME JAMB  
 \* SEE GENERAL NOTE #3 & #4.



**ANCHOR NOTES:**

1. SAME ANCHOR SPACING AT HEAD & SILL
2. TWO ADDITIONAL ANCHORS REQUIRED AT MEETING RAILS FOR UNITS WITH DP ABOVE +70PSF (4 TOTAL)

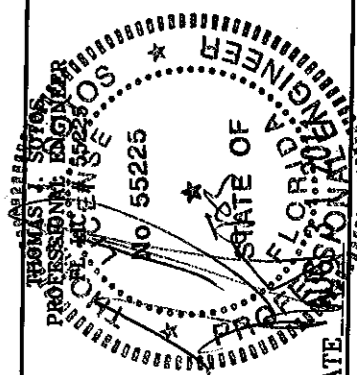
EXT. & INT. FALSE COLONIAL MUNTINS ARE APPLIED W/ W/ SILICONE AND ARE AVAILABLE AS OPTIONAL.

**"OX" WINDOW EQUAL LITE**

NOTES:  
 1. SEE VERTICAL CROSS-SECTION DETAILS "A, A1, B, & B1" AT SHEET #3  
 2. SEE HORIZONTAL CROSS-SECTION DETAILS "C, D, & E" AT SHEET #4

**SERIES-8700 HORIZONTAL SLIDING WINDOW  
 FLANGE FRAME ELEVATIONS - L.M.I.**

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 11-0705.10  
 Expiration Date APR 11, 2012  
 By *Michael Perez*  
 Miami Dade Product Control



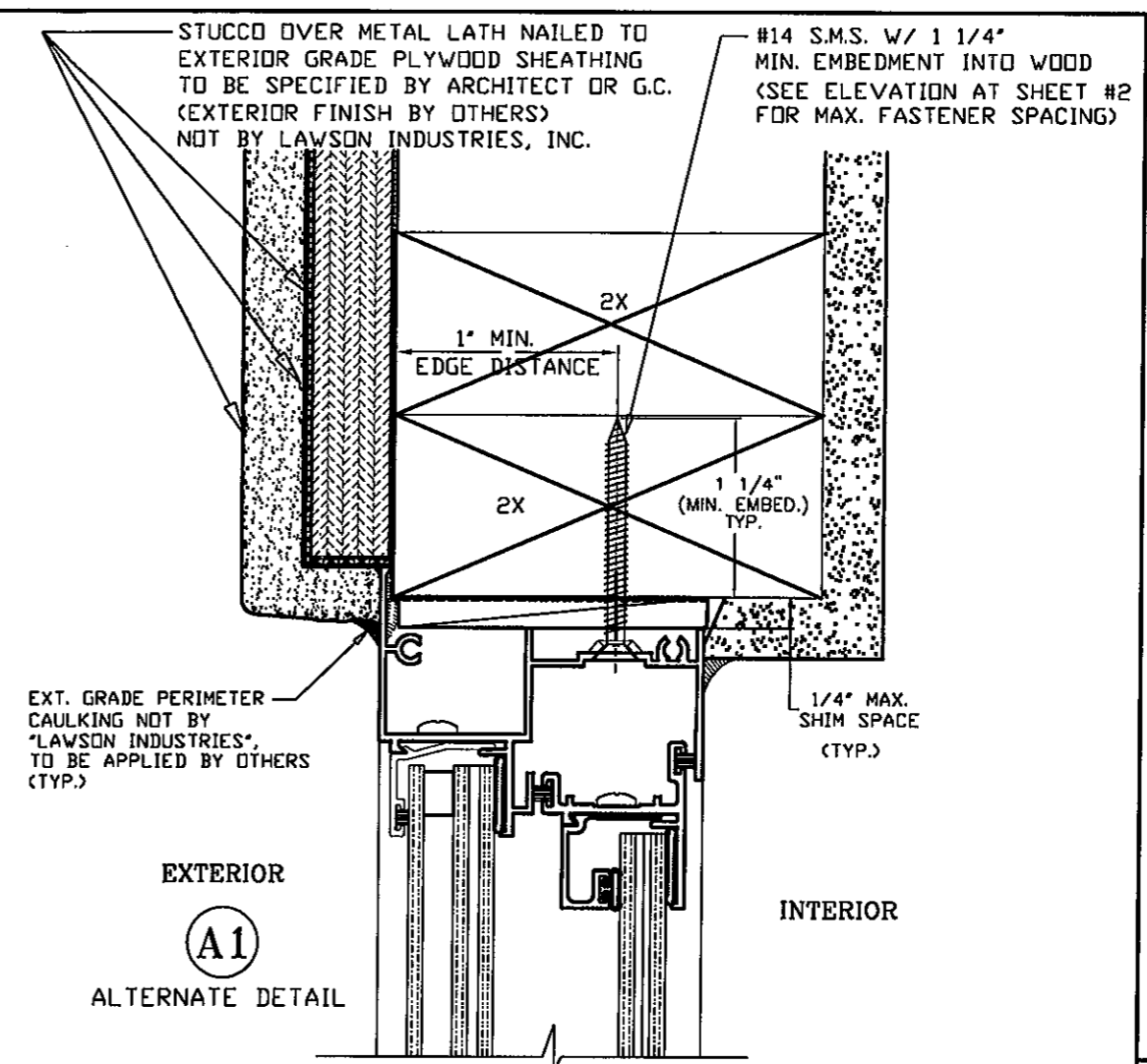
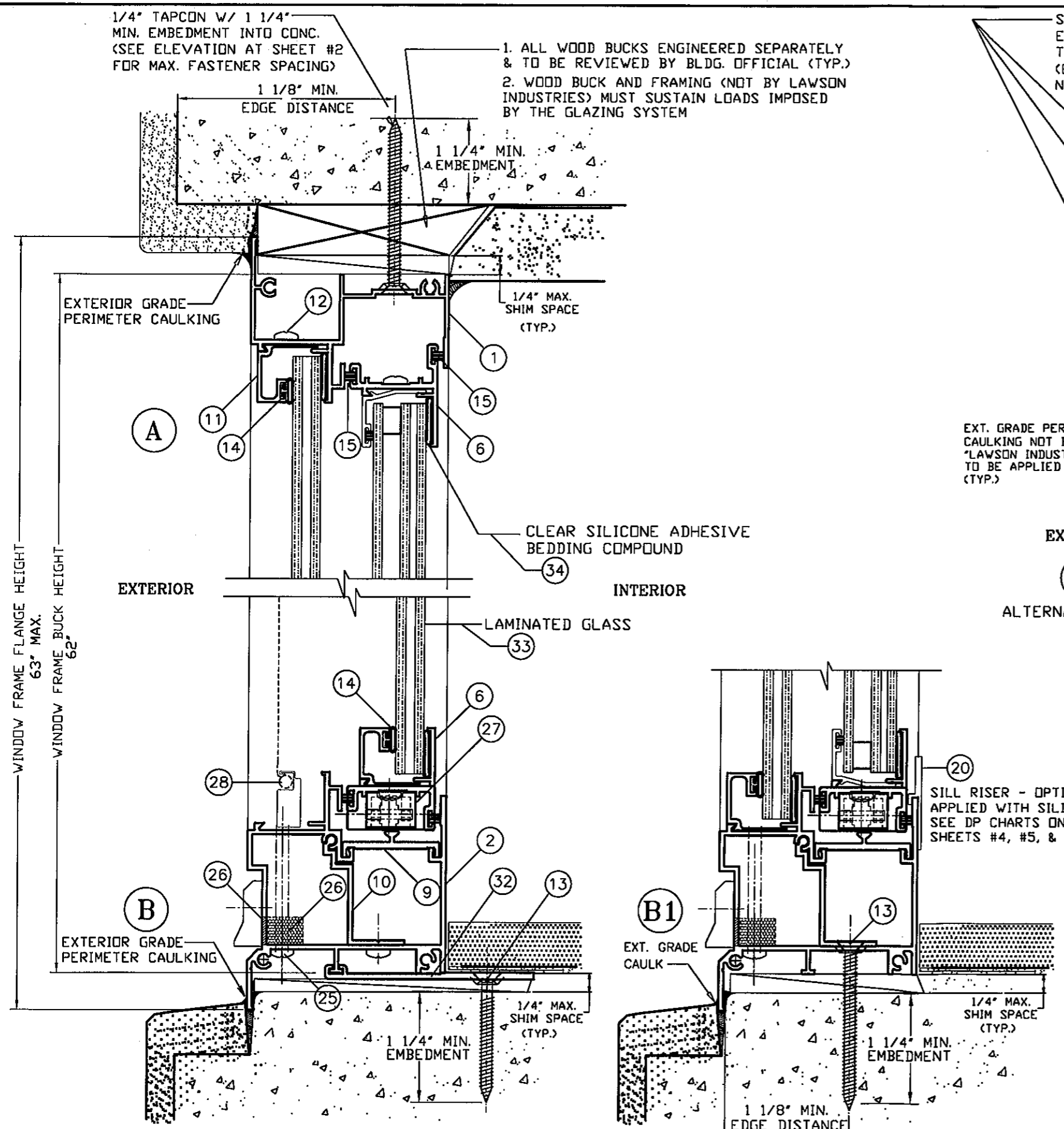
**LAWSON**  
 INDUSTRIES, INC.

8501 N.W. 90 ST.  
 MEDLEY, FLORIDA 33166  
 PH No. (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

HS-8700 HORIZONTAL ROLLING FLANGE IMPACT WINDOW  
 APPROVED ELEVATIONS, AND GENERAL NOTES

Revision #:	2 OF 10	Sheet	18700-0901	Drawing Number	Product Reference Number
Date Drawn:	05/30/09	Date Revised:		Scale:	
Drawn By:	N. ERAZO	Revised By:		Revision Level:	



WOOD FRAME INSTALLATION DETAIL

WINDOW INSTALLATION NOTES:

1. THE WINDOW FRAME FLANGE TO BE BACK-BEDDED W/ AN EXT. GRADE CAULK THROUGHOUT THE ENTIRE PERIMETER OF FLANGE BY WINDOW INSTALLER (TYP.)
  2. THE EXPOSED EXT. PERIMETER OF THE WINDOW FRAME TO BE SEALED W/ AN APPROVED EXTERIOR GRADE CAULK BY OTHERS (TYP.)
- \* WHEN THE GAP BETWEEN THE WINDOW FRAME AND THE BUCK OR MASONRY IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

**ANCHORS NOTE:**

ANCHORS TO BE #12 SMS OR WD. SCREWS INTO WOOD, OR 1/4" TAPCONS OR APPROVED CONC. FASTENERS INTO CONC., WITH A MINIMUM OF 1 1/4" PENETRATION INTO WOOD OR CONC. (REFER TO LOAD TABLES FOR QUANTITIES REQUIRED)

OPTIONAL SILL INSTALLATION DETAIL AT "XO or OX"

PRODUCT REVISED  
as complying with the Florida  
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Acceptance No. 11-0705.10  
Expiration Date April 11, 2012  
By *Manuel Perez*  
Miami, Dade Product Control

**LAWSON INDUSTRIES, INC.**

8501 N.W. 90 ST.  
MEDLEY, FLORIDA 33166  
PH No. (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

HS-8700 HORIZONTAL ROLLING FLANGE WINDOW

WINDOW VERTICAL CROSS SECTION & INSTALLATION OPTIONAL DETAILS

Revision #:

Sheet: 3 OF 10

Drawing Number: L8700-0901

Product Reference Number:

Revision Notes:

Drawn By: N. ERAZO

Revised By:

Revision Level:

Date Drawn: 05/30/09

Date Revised:

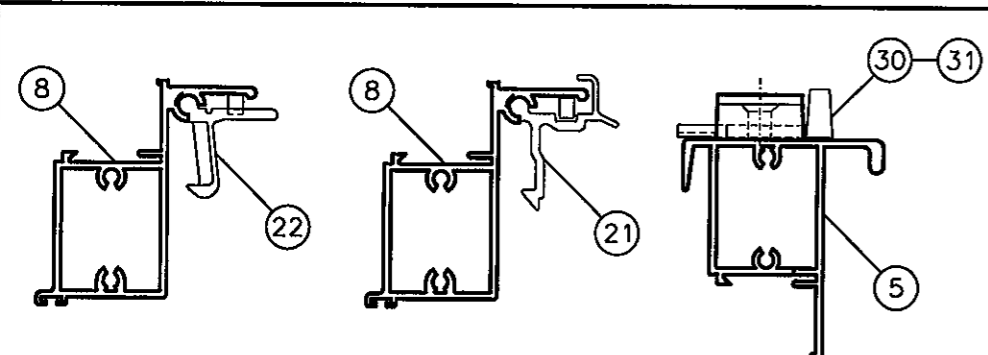
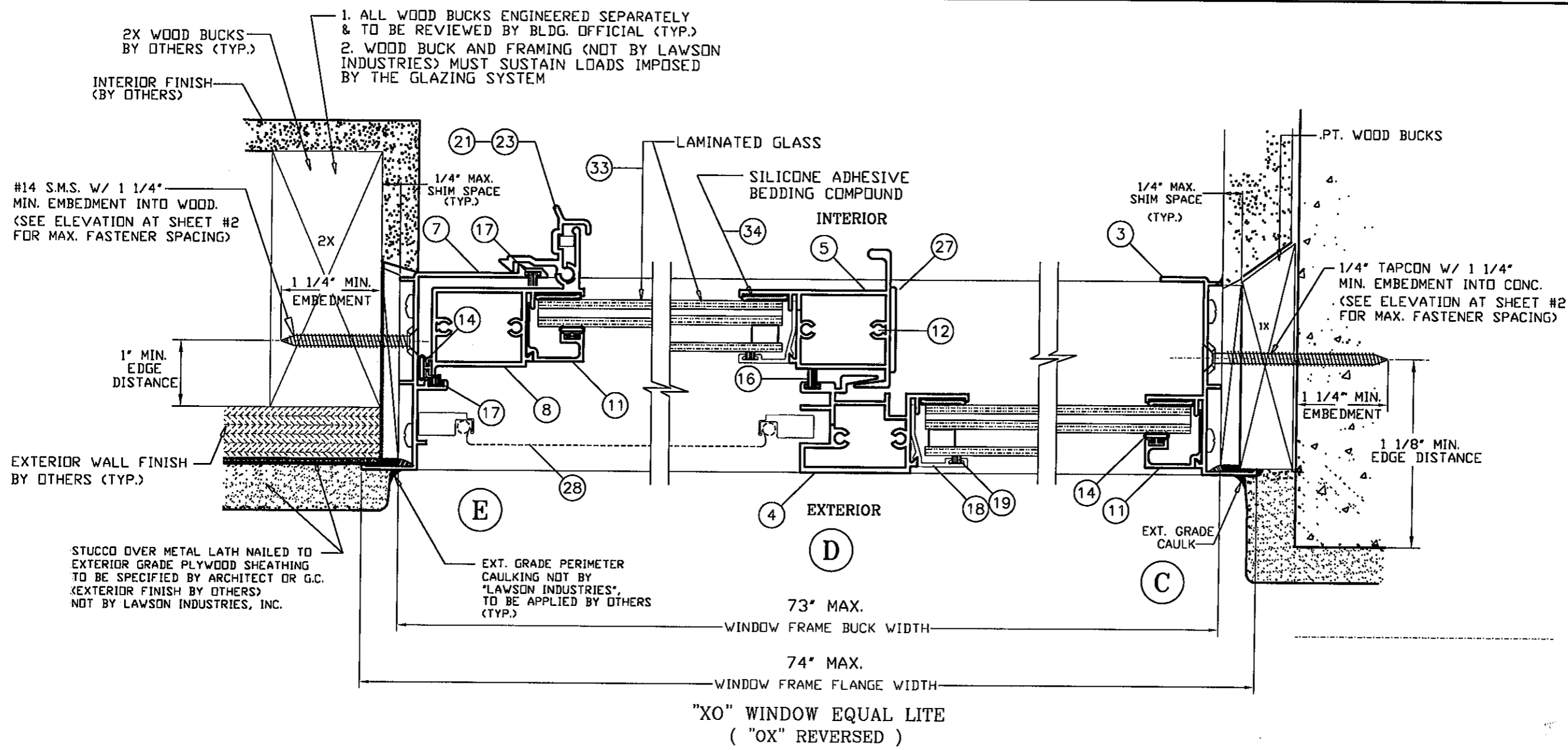
Scale:

PROFESSIONAL ENGINEER

STATE OF FLORIDA

NO. 55225

DATE



### LOCK (LATCH AND SWEEP) OPTIONS

1. BOTH EXTRUDED ALUMINUM AND PLASTIC LIFT HANDLE LOCKS ARE QUALIFIED FOR USE ON ALL WINDOWS.
2. BOTH DIE CAST AND NYLON CAM LOCKS ARE QUALIFIED FOR USE ON ALL WINDOWS.
3. TWO (2) LOCKS ARE REQUIRED PER EACH VENT.

### WINDOW INSTALLATION NOTES:

1. THE WINDOW FRAME FLANGE TO BE BACK-BEDDED W/ AN EXT. GRADE CAULK THROUGHOUT THE ENTIRE PERIMETER OF FLANGE BY WINDOW INSTALLER (TYP.)
2. THE EXPOSED EXT. PERIMETER OF THE WINDOW FRAME TO BE SEALED W/ AN APPROVED EXTERIOR GRADE CAULK BY OTHERS (TYP.)

\* WHEN THE GAP BETWEEN THE WINDOW FRAME AND THE BUCK OR MASONRY IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

### ANCHORS NOTE:

ANCHORS TO BE #12 SMS OR WD. SCREWS INTO WOOD, OR 1/4" TAPCONS or APPROVED CONC. FASTENERS INTO CONC., WITH A MINIMUM OF 1 1/4" PENETRATION INTO WOOD OR CONC. (REFER TO LOAD TABLES FOR QUANTITIES REQUIRED)

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as complying with the Florida  
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PH No. (305) 696-8660

# LAWSON

INDUSTRIES, INC.

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

HS-8700 HORIZONTAL ROLLING FLANGE IMPACT WINDOW

CROSS SECTION DETAILS, LOCK OPTIONS AND FRAME INSTALLATION DETAIL

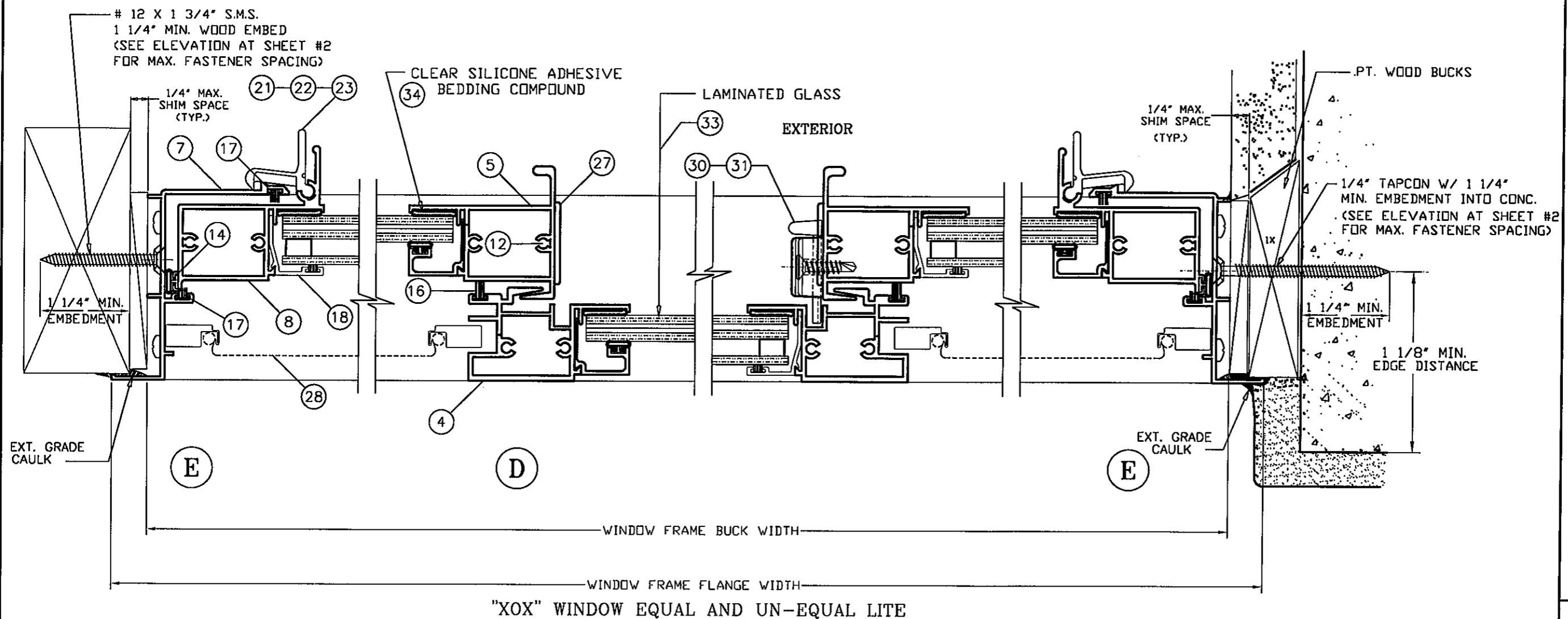
Revision Notes:

Revision	By	Date
1	N. ERAZO	05/30/08

Product Reference Number: L8700-0901

Sheet: 4 OF 10

DATE: \_\_\_\_\_



#### WINDOW INSTALLATION NOTES:

1. THE WINDOW FRAME FLANGE TO BE BACK-BEDDED W/ AN EXT. GRADE CAULK THROUGHOUT THE ENTIRE PERIMETER OF FLANGE BY WINDOW INSTALLER (TYP.)
2. THE EXPOSED EXT. PERIMETER OF THE WINDOW FRAME TO BE SEALED W/ AN APPROVED EXTERIOR GRADE CAULK BY OTHERS (TYP.)

\* WHEN THE GAP BETWEEN THE WINDOW FRAME AND THE BUCK OR MASONRY IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

#### ANCHORS NOTE:

ANCHORS TO BE #12 SMS OR WD. SCREWS INTO WOOD, OR 1/4" TAPCONS OR APPROVED CONC. FASTENERS INTO CONC., WITH A MINIMUM OF 1 1/4" PENETRATION INTO WOOD OR CONC. (REFER TO LOAD TABLES FOR QUANTITIES REQUIRED)

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-0705.10  
Expiration Date April 11, 2012  
By *Manuel Perez*  
Miami Dade Product Control

**LAWSON INDUSTRIES, INC.**

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

8501 N.W. 90 ST.  
MEDLEY, FLORIDA 33166  
PH No. (305) 696-8660

HS-8700 HORIZONTAL ROLLING FLANGE IMPACT WINDOW

CROSS SECTION DETAILS, LOCK OPTIONS AND FRAME INSTALLATION DETAIL

Product Reference Number: L8700-0901

Sheet: 5 OF 10

Revision #:

Revision Notes:

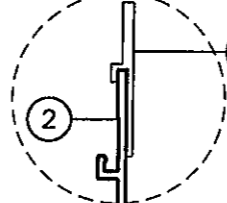
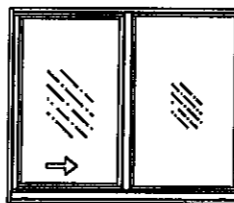
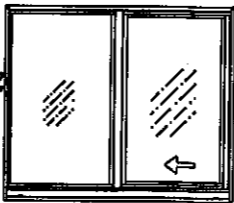
Drawn By:	N. ERAZO	Date Drawn:	05/30/09
Revised By:		Date Revised:	
Revision Level:		Scale:	

Professional Engineer  
State of Florida  
License No. 55225  
Date: *11-07-10*

DESIGN LOAD CAPACITY (PSF) - OX or XO WINDOWS

WINDOW		# Jamb Anchors	# H & S Anchors	+ / - Pressures (psf)											
				Glass Type "A" (* 2)		Glass Type "B" (* 2)		Glass Type "C" (* 2)		Glass Type "D" (* 2)		Glass Type "E" (* 3)		Glass Type "F" (* 3)	
				+ psf	- psf	+ psf	- psf	+ psf	- psf	+ psf	- psf	+ psf	- psf	+ psf	- psf
24	24	3	3	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
36	24	3	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
48	24	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
60	24	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
72	24	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
24	36	3	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
36	36	3	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
48	36	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
60	36	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
72	36	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
24	48	4	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
36	48	4	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
48	48	4	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
60	48	4	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
72	48	4	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
24	60	5	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
36	60	5	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
48	60	5	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
60	60	5	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
72	60	5	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	-	-	-	-
26.5	26	3	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37	26	3	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
53.125	26	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
74	26	3	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
26.5	38.375	4	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37	38.375	4	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
53.125	38.375	4	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
74	38.375	4	8	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
26.5	50.625	5	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37	50.625	5	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
53.125	50.625	5	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
74	50.625	5	8	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
26.5	58	5	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37	58	5	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
53.125	58	5	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
74	58	5	8	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
26.5	63	6	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37	63	6	4	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
53.125	63	6	6	65.0	65.0	65.0	65.0	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
74	63	6	8	65.0	65.0	65.0	65.0	65.0	70.0	-	-	-	-	-	-

- Notes (\*):
- SEE SHEET 9 FOR GLAZING TYPES, DETAILS & SILICONE OPTIONS.
  - STANDARD SILL USED ON WINDOWS WITH +70.0 DP AND BELOW (WINDOWS WITH GLASS TYPES "A, B, C, & D")
  - SILL WITH RISER ADAPTER ARE FOR WINDOWS ABOVE +70.0 (WINDOWS WITH GLASS TYPES "E, & F") AND +80.0 DP MAX. ADDITIONAL ANCHORS REQUIRED AT FRAME HEAD & SILL ON WINDOWS WITH DP ABOVE 70.0. (SEE ELEVATION AT SHEET 2 OF 4)
  - WINDOWS WITH GLASS TYPES "A, C, OR G" INSTALLED ABOVE 30FT. IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED.



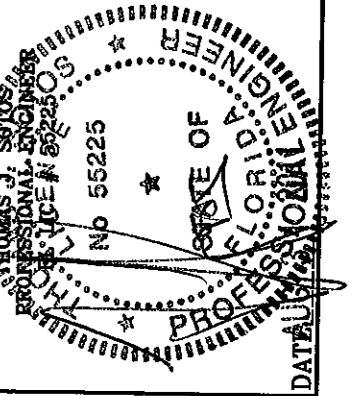
20 SILL RISER - OPTIONAL APPLIED WITH SILICONE FOR DP ABOVE +70.0 PSF (+80.0 DP MAX.)

LAWSON INDUSTRIES, INC.

8501 N.W. 90 ST.  
MEDLEY, FLORIDA 33166  
PH No. (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS  
HS-8700 HORIZONTAL ROLLING FLANGE IMPACT WINDOW  
DESIGN LOAD CHART WITH GLASS OPTIONS (XO or OX)

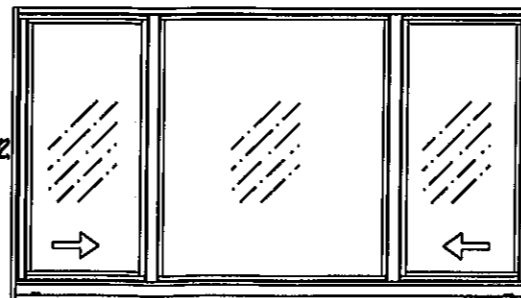
Drawn By: N. ERAZO  
Date Drawn: 05/30/09  
Revised By:  
Date Revised:  
Revision Level:



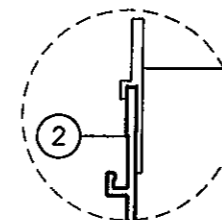
FRAME SIZE WIDTH HEIGHT		# Jamb Anchors	# H & S Anchors	DESIGN LOAD CAPACITY (PSF) - XOX WINDOWS with Un-Equal Lite (1/4-1/2-1/4) + / - Pressures (psf)											
				Glass Type "B" (* 2)		Glass Type "C" (* 2)		Glass Type "D" (* 2)		Glass Type "E" (* 3)		Glass Type "F" (* 3)		Glass Type "G" (* 2)	
				+ psf	- psf	+ psf	- psf	+ psf	- psf	+ psf	- psf	+ psf	- psf	+ psf	- psf
60	24	3	7	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
72	24	3	7	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	24	3	8	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
96	24	3	10	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
108	24	3	11	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
60	36	3	7	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
72	36	3	7	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	36	3	8	70.0	75.0	70.0	75.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
96	36	3	10	70.0	75.0	70.0	75.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
108	36	3	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
60	48	4	7	70.0	75.0	70.0	75.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
72	48	4	7	70.0	75.0	70.0	75.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	48	4	8	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
96	48	4	10	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
108	48	4	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
60	60	5	7	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
72	60	5	7	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	60	5	8	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
96	60	5	10	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
108	60	5	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
74	26	3	7	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
74	38.375	3	7	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
74	50.625	4	7	70.0	75.0	70.0	75.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
74	58	5	7	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
74	63	5	7	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
79.5	26	3	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
79.5	38.375	4	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
79.5	50.625	4	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
79.5	58	5	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
79.5	63	5	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
106.25	26	3	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
106.25	38.375	4	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
106.25	50.625	4	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
106.25	58	5	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
106.25	63	5	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
111	26	3	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
111	38.375	4	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
111	50.625	4	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
111	58	5	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
111	63	5	11	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0

- Notes (\*):**
- SEE SHEET 9 FOR GLAZING TYPES, DETAILS & SILICONE OPTIONS
  - STANDARD SILL USED ON WINDOWS WITH +70.0 DP AND BELOW (WINDOWS WITH GLASS TYPES "A, B, C, & D")
  - SILL WITH RISER ADAPTER ARE FOR WINDOWS ABOVE +70.0 DP (WINDOWS WITH GLASS TYPES "E, & F") AND +80.0 DP MAX. ADDITIONAL ANCHORS REQUIRED AT FRAME HEAD & SILL ON WINDOWS WITH DP ABOVE 70.0. (SEE ELEVATION AT SHEET 2 OF 10)
  - WINDOWS WITH GLASS TYPES "A, C, OR G" INSTALLED ABOVE 30FT. IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 11-0705.10  
Expiration Date April 11, 2012  
By *Manuel Perez*  
Miami Trade Product Control



XOX - Un-Equal Lite



20 SILL RISER - OPTIONAL  
APPLIED WITH SILICONE  
FOR DP ABOVE +70.0 PSF  
(+80.0 DP MAX.)

**LAWSON**  
INDUSTRIES, INC.

8501 N.W. 90 ST.  
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PH No. (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

HS-8700 HORIZONTAL ROLLING FLANGE IMPACT WINDOW

DESIGN LOAD CHART WITH GLASS OPTIONS (XOX EQUAL LITE)

Product Reference Number: L8700-0901

Sheet: 7 OF 10

Revision Note:

Date Drawn: 05/30/09

Date Revised:

Scale:

Drawn By: N. ERAZO

Revised By:

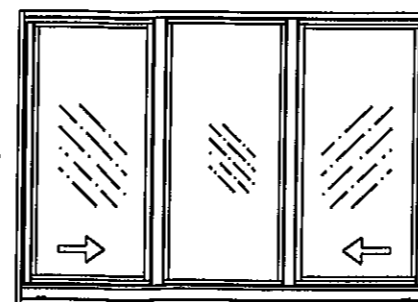
Revision Level:

THOMAS J. SOROS  
PROFESSIONAL ENGINEER  
FLORIDA LICENSE NO. 55225  
DATE: 11/11/2011

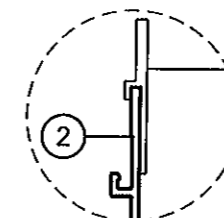
				DESIGN LOAD CAPACITY (PSF) - XOX WINDOWS with Equal Lite (1/3-1/3-1/3)											
				+ / - Pressures (psf)											
FRAME SIZE		# Jamb Anchors	# H & S Anchors	Glass Type "B" (* 2)		Glass Type "C" (* 2)		Glass Type "D" (* 2)		Glass Type "E" (* 3)		Glass Type "F" (* 3)		Glass Type "G" (* 2)	
WIDTH	HEIGHT			+ psf	- psf	+ psf	- psf	+ psf	- psf	+ psf	- psf	+ psf	- psf	+ psf	- psf
60	24	3	7	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
72	24	3	9	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	24	3	9	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
60	36	3	7	70.0	75.0	70.0	75.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
72	36	3	9	70.0	75.0	70.0	75.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	36	3	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
60	48	4	7	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
72	48	4	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	48	4	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
60	60	5	7	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
72	60	5	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	60	5	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
53.125	26	3	6	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
53.125	38.375	4	6	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
53.125	50.625	4	6	70.0	75.0	70.0	75.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
53.125	58	5	6	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
53.125	63	5	6	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
74	26	3	9	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
74	38.375	4	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
74	50.625	4	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
74	58	5	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
74	63	5	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
79.5	26	3	9	80.0	80.0	80.0	80.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
79.5	38.375	4	9	70.0	75.0	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
79.5	50.625	4	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
79.5	58	5	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
79.5	63	5	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	26	3	9	70.0	75.0	70.0	75.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	38.375	4	9	70.0	75.0	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	50.625	4	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	58	5	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0
84	63	5	9	-	-	52.0	52.0	65.0	75.0	65.0	75.0	52.0	52.0	65.0	75.0

- Notes (\*):
- SEE SHEET 9 FOR GLAZING TYPES, DETAILS & SILICONE OPTIONS.
  - STANDARD SILL USED ON WINDOWS WITH +70.0 DP AND BELOW (WINDOWS WITH GLASS TYPES "A, B, C, & D")
  - SILL WITH RISER ADAPTER ARE FOR WINDOWS ABOVE +70.0 DP (WINDOWS WITH GLASS TYPES "E, & F") AND +80.0 DP MAX. ADDITIONAL ANCHORS REQUIRED AT FRAME HEAD & SILL ON WINDOWS WITH DP ABOVE 70.0. (SEE ELEVATION AT SHEET 2 OF 10)
  - WINDOWS WITH GLASS TYPES "A, C, OR G" INSTALLED ABOVE 30FT. IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED.

PRODUCT REVISED  
as complying with the Florida  
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By *Manuel Perez*  
Miami Trade Product Control



XOX - Equal Lite



20 SILL RISER - OPTIONAL  
APPLIED WITH SILICONE  
FOR DP ABOVE +70.0 PSF  
(+80.0 DP MAX.)

**LAWSON**  
INDUSTRIES, INC.

8501 N.W. 90 ST.  
MEDLEY, FLORIDA 33166  
PH No. (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

HS-8700 HORIZONTAL ROLLING FLANGE IMPACT WINDOW

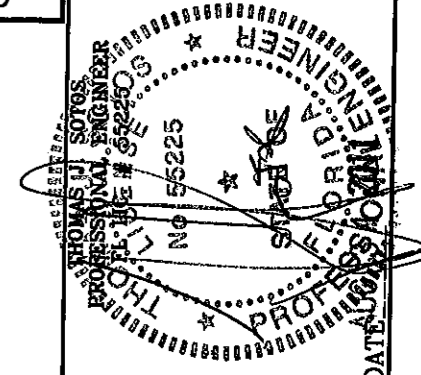
DESIGN LOAD CHART WITH GLASS OPTIONS (XOX UN-EQUAL LITE)

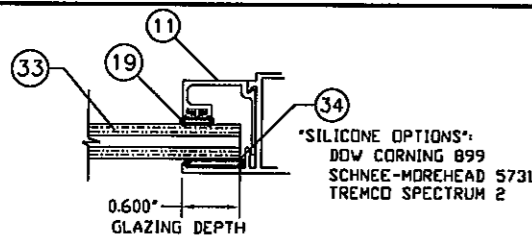
Product Reference Number: L8700-0901 Sheet: B OF 10 Revision #:

Drawn By: N. ERAZO Date Drawn: 05/30/09

Revised By: Date Revised:

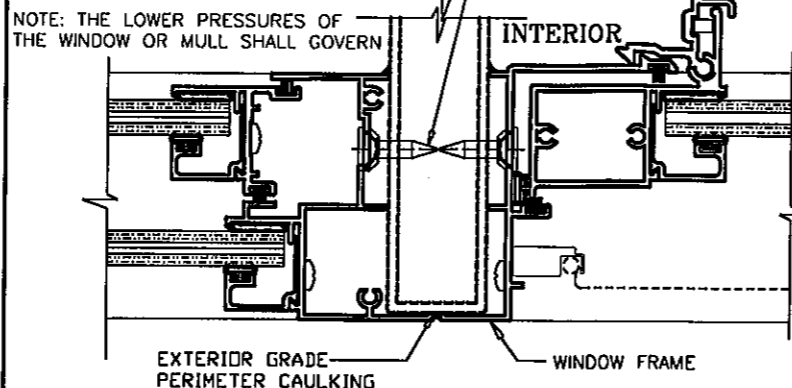
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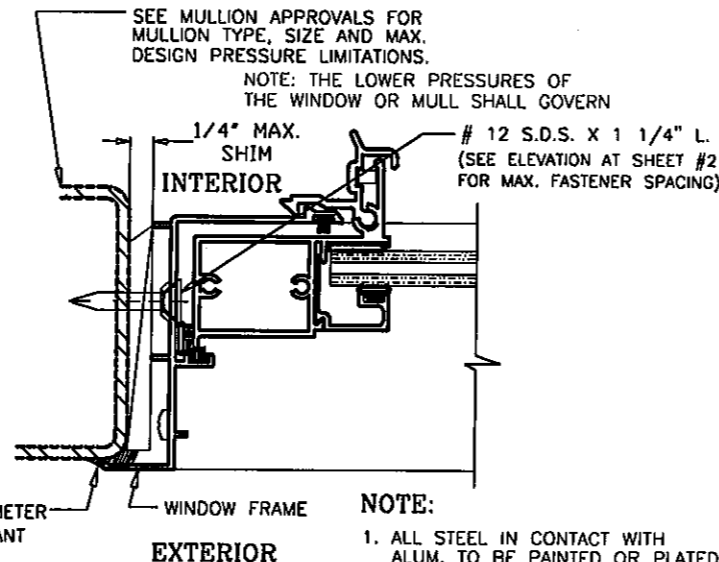


ALUMINUM MULLION  
SEE MULLION APPROVALS FOR  
MULLION TYPE, SIZE AND MAX.  
DESIGN PRESSURE LIMITATIONS.  
(ALUM. 0.078" MIN. THICK)

# 12 X 3/4" S.D.S.  
FLAT HEAD, PHILLIPS.  
(SEE ELEVATION AT SHEET #2  
FOR MAX. FASTENER SPACING AND  
DP TABLES FOR QUANTITY)



E2 FRAME MULLING DETAIL



E1 METAL STRUCTURE ATTACHMENT DETAIL

## HS-8700 FLANGE FRAME WINDOW BILL OF MATERIALS

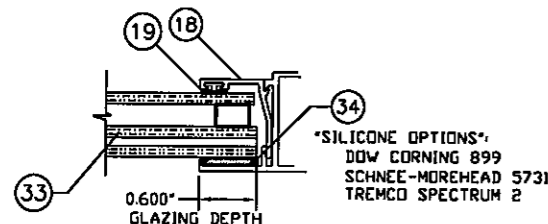
ITEM #	PART #	REQD.	DESCRIPTION	REMARKS
1	L-7703	1	FRAME HEAD	6063-T6 ALUMINUM
2	L-8701	1	FRAME SILL	6063-T6 ALUMINUM
3	L-7701	1	FRAME FXD. JAMB	6063-T6 ALUMINUM
4	L-7704	1	FRAME FIXED MEETING RAIL	6063-T6 ALUMINUM
5	L-7705	1	VENT MEETING RAIL	6063-T6 ALUMINUM
6	L-7707	1	VENT TOP/BOTTOM RAIL	6063-T6 ALUMINUM
7	L-8703	1	FRAME VENT JAMB	6063-T6 ALUMINUM
8	L-7706	1	VENT JAMB LATCH RAIL	6063-T6 ALUMINUM
9	L-8702	1	FRAME SILL TRACK	6063-T5 ALUMINUM
10	L-8705	1	FRAME SILL RETAINING CLIP	6063-T5 ALUMINUM
11	L-7708	AS REQ'D.	GLAZING BEAD ( 3/8" )	6063-T5 ALUMINUM
12	FS-006	AS REQ'D.	FRAME ASSEMBLY SCREWS	#8 X 3/4" P.H. PHILLIPS
13	FS-040	AS REQ'D.	INSTALLATION SCREWS	#14 SMS F.H./PHIL.
14	L-7531	AS REQ'D.	VINYL BULB	1/4" DIA. BULB #3033
15	PWS-003	AS REQ'D.	FIN SEAL WEATHERSTRIP	.187" w x .230" h
16	PWS-005	AS REQ'D.	FIN SEAL WEATHERSTRIP	.187" w x .350" h
17	PWS-009	AS REQ'D.	FIN SEAL WEATHERSTRIP	.187" w x .310" h
18	L-7711	AS REQ'D.	GLAZING BEAD ( INSULATED )	6063-T5 ALUMINUM
19	PWS-001	AS REQ'D.	PILE @ GLAZING BEAD	.187" w x .150" h
20	L-8706	AS REQ'D.	SILL RISER ADAPTER	6063-T5 ALUM.- OPTIONAL
21	L-7539	2	VENT EXTRUDED SPRING LATCH	6063-T5 ALUMINUM
22	HC-057-1	2	VENT MOLDED SPRING LATCH	MOLDED NYLON
23	L-7523	1 X LATCH	LATCH SPRING	STAINLESS STEEL
24	*	2	SILL/JAMB JOINT GASKET	1/16" CLOSED CELL FOAM
25	FS-041	2	SILL RAIL ASSEMBLY SCREW	#8 X 2 1/4" P.H./PHIL.
26.1	HC-044-1	2	WEEP FLAP & BAFFLE	*
26.2	HC-	1 X WEEP	OPEN CELL FOAM PAD	1/2" X 1/2" X 2" L.
27	HC-040-1	2	SASH ROLLER & HOUSING	*
28	HC-026-1	1	SCREEN FRAME & MESH	*
29	*	1	ATTACHMENT SCREW @ CLIP	#8 X 5/8" S.D.S.
30	HC-058-1	2	VENT SWEEP LATCH	MOLDED NYLON
31	HC-059-1	2	VENT SWEEP LATCH	DIE CAST METAL
32	L-8830	1 X Anchor	FRAME SILL ANCHOR CLIP	6063-T5 ALUMINUM
33	*	2	LAMINATED GLASS	See Details @ L.H. of sheet 9
34	*	AS REQ'D.	GLAZING SILICONE	See Details @ L.H. of sheet 9
35	OPTIONAL	AS REQ'D.	COLONIAL FALSE MUNTIN	ALUMINUM
36	SM-5504	AS REQ'D.	JOINT SEALANT	*
37	*	AS REQ'D.	PERIMETER ACRYLIC CAULK	DSI POLYSEAMSEAL

LAMINATED GLASS COMPOSITION - TYPE B			
ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" ANNEALED GLASS		SAFLEX/KEEPSAFE By: "SOLUTIA"
2	0.090" PLASTIC INTERLAYER		
3	1/8" ANNEALED GLASS		

LAMINATED GLASS COMPOSITION - TYPE D			
ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" HEAT-STRENGTHENED GLASS		BUTACITE PVB By: "DUPONT"
2	0.090" PLASTIC INTERLAYER		
3	1/8" HEAT-STRENGTHENED GLASS		

LAMINATED GLASS COMPOSITION - TYPE E			
ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" HEAT-STRENGTHENED GLASS		SAFLEX/KEEPSAFE By: "SOLUTIA"
2	0.090" PLASTIC INTERLAYER		
3	1/8" HEAT-STRENGTHENED GLASS		

LAMINATED GLASS COMPOSITION - TYPE F			
ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" ANNEALED GLASS		BUTACITE PVB By: "DUPONT"
2	0.090" PLASTIC INTERLAYER		
3	1/8" ANNEALED GLASS		



INSULATED LAMINATED GLASS COMPOSITION TYPE A			
ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" ANNEALED GLASS		SAFLEX PVB By: "SOLUTIA"
2	0.090" PLASTIC INTERLAYER		
3	1/8" ANNEALED GLASS		
4	1/4" INSULATED AIR SPACE		
5	1/8" ANNEALED GLASS (*)		

INSULATED LAMINATED GLASS COMPOSITION TYPE C			
ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" ANNEALED GLASS		PVB By: "DUPONT"
2	0.090" PLASTIC INTERLAYER		
3	1/8" ANNEALED GLASS		
4	1/4" INSULATED AIR SPACE		
5	1/8" ANNEALED GLASS (*)		

INSULATED LAMINATED GLASS COMPOSITION TYPE G			
ITEM	GLASS DESCRIPTION	DETAIL	LAMINATE DESCRIPTION
1	1/8" HEAT-STRENGTHENED GLASS		PVB By: "DUPONT"
2	0.090" PLASTIC INTERLAYER		
3	1/8" HEAT-STRENGTHENED GLASS		
4	1/4" INSULATED AIR SPACE		
5	1/8" ANNEALED GLASS (*)		

(\*) WINDOWS WITH GLASS TYPES "A, C, OR G" INSTALLED ABOVE 30FT.  
IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED.

## GLAZING DETAILS AND OPTIONS

8501 N.W. 90 ST.  
MEDLEY, FLORIDA 33166  
PH No. (305) 696-8660

LAWSON  
INDUSTRIES, INC.

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

SERIES-8700 HORIZONTAL ROLLING FLANGE IMPACT WINDOW  
GLAZING DETAILS, MULLION DETAILS & BILL OF MATERIALS

Product Reference Number: L8700-0901

Revision #:

Sheet: 9 OF 10

Drawing Number:

Product Reference Number:

Revision #:

Sheet: 9 OF 10

Drawing Number:

Product Reference Number:

Revision #:

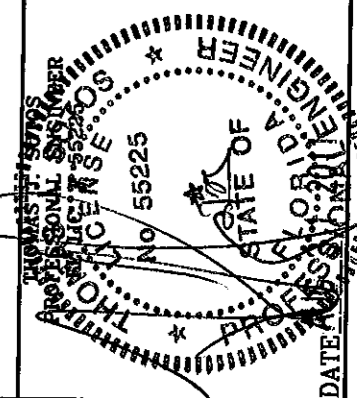
Sheet: 9 OF 10

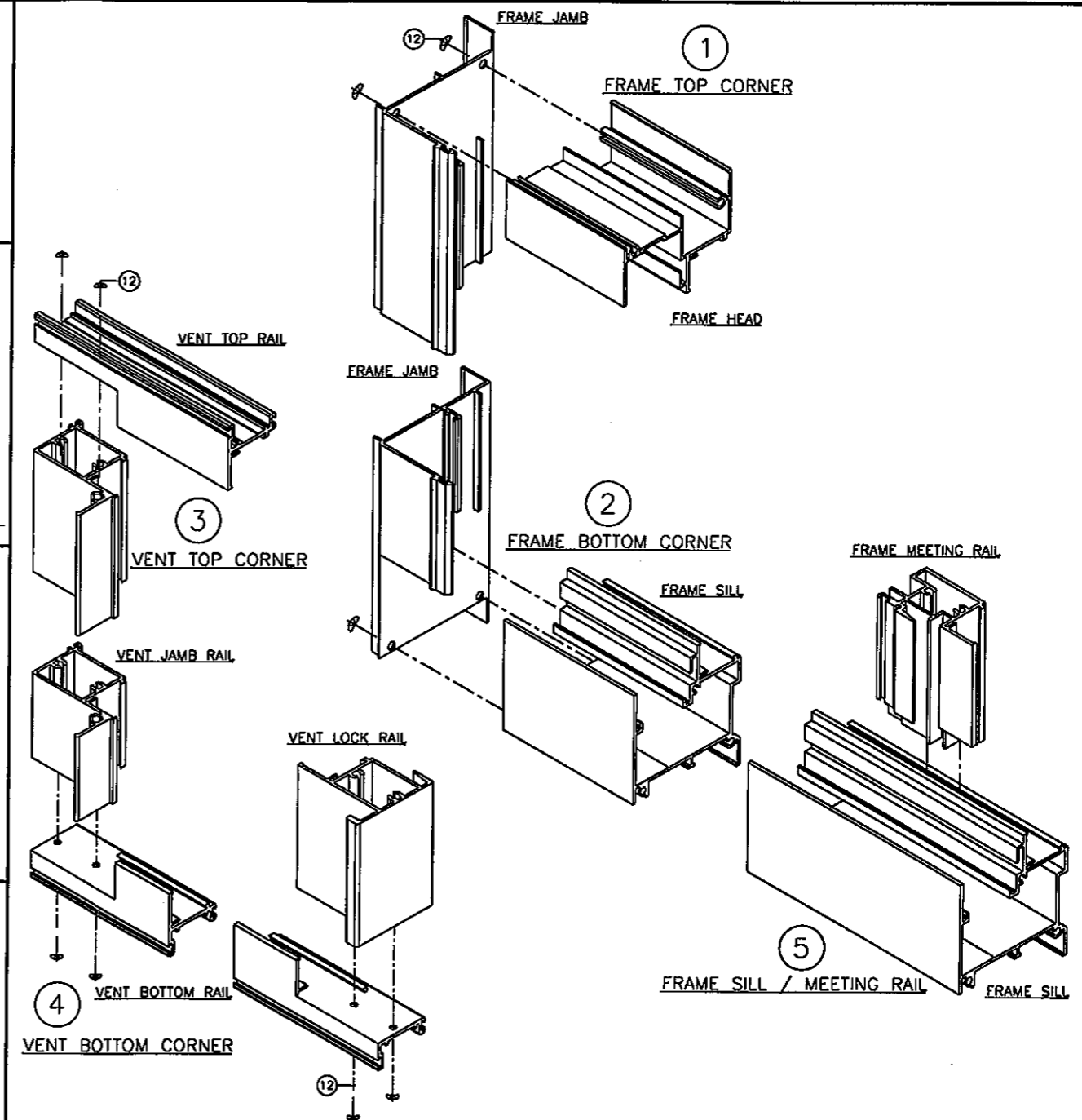
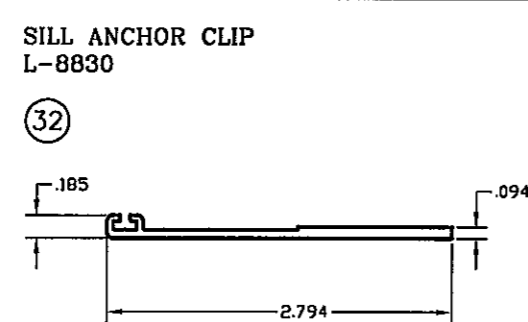
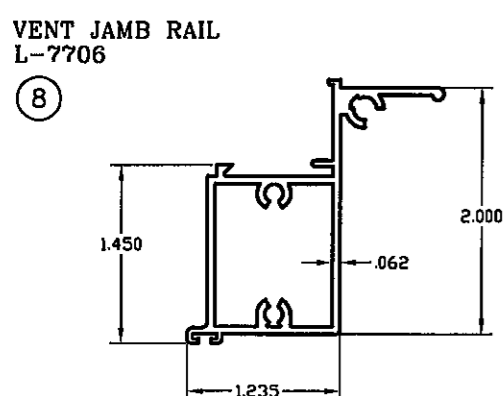
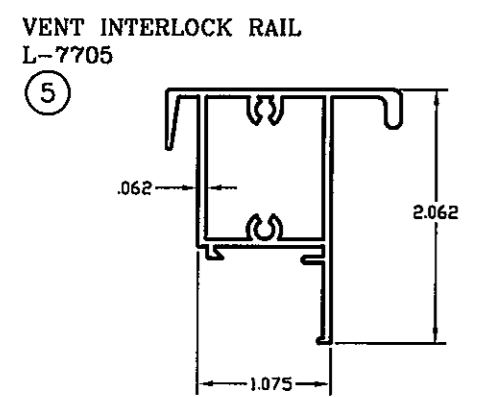
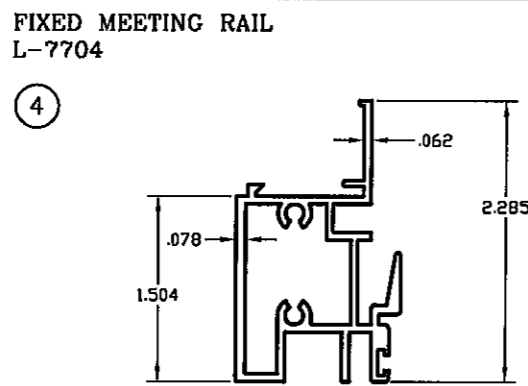
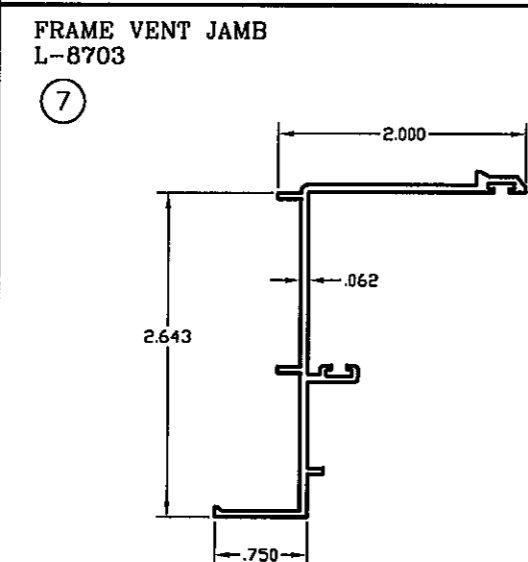
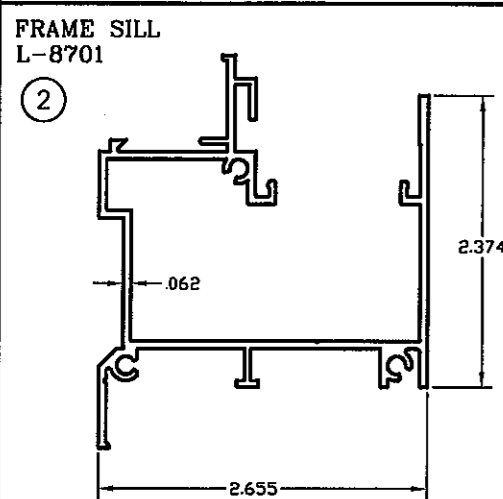
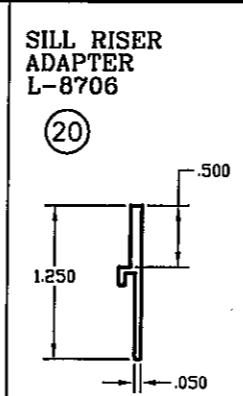
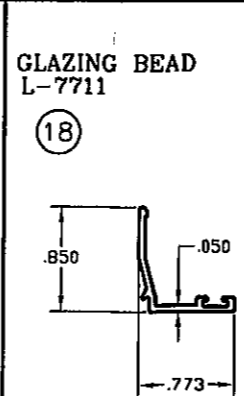
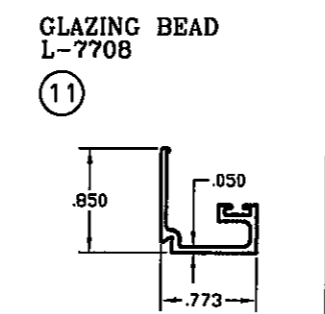
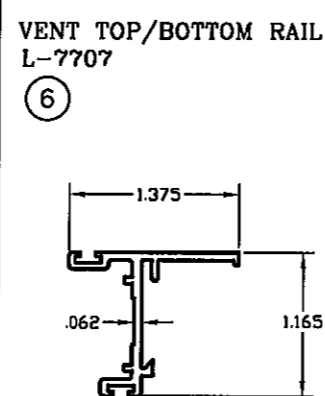
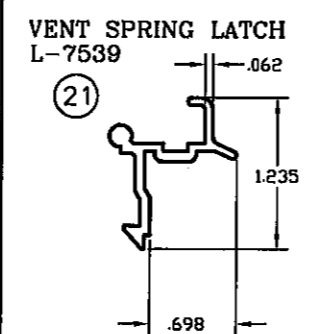
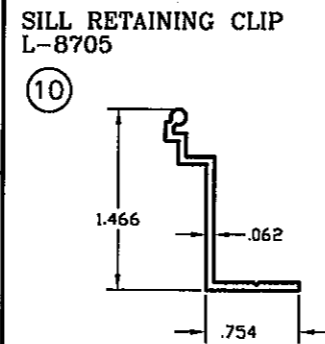
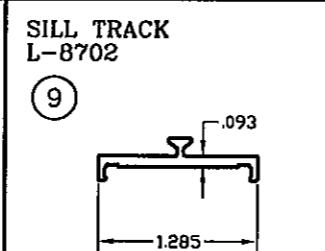
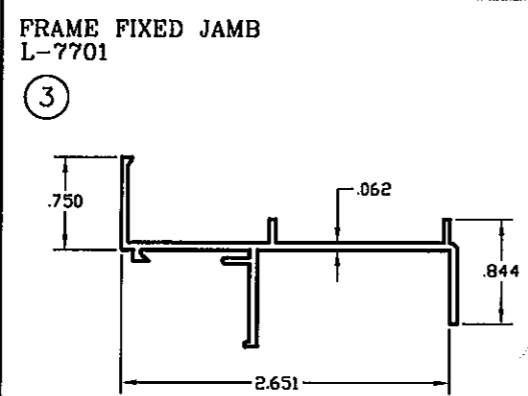
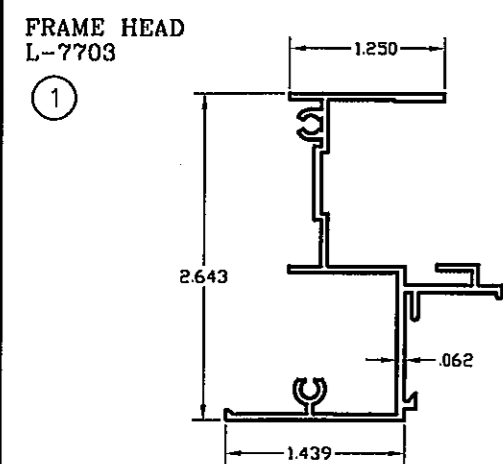
Drawing Number:

Product Reference Number:

Revision #:

PRODUCT REVISED  
as complying with the Florida  
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Acceptance No. 11-0705-10  
Expiration Date April 11, 2012  
By: *Maureen Perez*  
Miami Dade Product Control





**FRAME & SASH CORNER ASSEMBLY DETAILS**

PRODUCT REVISED  
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Expiration Date April 11, 2012  
By *Walter Perez*  
Miami Dade Product Control

**LAWSON INDUSTRIES, INC.**

8501 N.W. 90 ST.  
MEDLEY, FLORIDA 33166  
PH No. (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

HS-8700 HORIZONTAL ROLLING FLANGE IMPACT WINDOW  
EXTRUSION DETAILS & CORNER ASSEMBLY DETAILS

Drawing Number: L8700-0901		Sheet: 10 OF 10	Revision #:
Product Reference Number:		Scale:	
Drawn By: N. ERAZO	Date Drawn: 05/30/09	Revised By:	Date Revised:
Revision Level:			